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CANMET
Canada Centre for Mineral and Energy Technology
Centre canadien de la technologie des minéraux et de l'énergie

INDEX OF MINING TECHNOLOGY DEVELOPMENT 1985

INDEX SUR LE DÉVELOPPEMENT EN TECHNOLOGIE MINIÈRE 1985

MINERAL AND ENERGY TECHNOLOGY

MINING RESEARCH LABORATORIES

LA TECHNOLOGIE DES MINÉRAUX ET DE L'ÉNERGIE

LABORATOIRES DE RECHERCHE MINIÈRE

Canada

INDEX OF MINING TECHNOLOGY DEVELOPMENT

1985

R.J.R. Welwood
Rock Mechanics Laboratory
Mining Research Laboratories

December 1985

INDEX SUR LE DÉVELOPPEMENT EN TECHNOLOGIE MINIÈRE

1985

R.J.R. Welwood
Laboratoire de mécanique des roches
Laboratoires de recherche minière

Décembre 1985

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INDEX OF MINING TECHNOLOGY DEVELOPMENT (1985)

FOREWORD

The "Mining Technology Development Index" is a service which has been implemented by CANMET/MRL in order to meet the needs for a data base concerning the mining research underway in Canada. It is intended to promote efficiency and technology transfer through making people aware of what others are doing. In order to maximize its usefulness, it is intended that a new edition be issued annually.

The data base has been established in response to a recommendation of the Mining sub-committee of the National Advisory Committee on Mining and Metallurgical Research (NACMMR). The present volume represents the work of Dick Welwood, who has invested much more effort than visualized at the early stages of the project. He is to be congratulated for his fine efforts and for the results.

This edition is published in a bilingual format, in which the principal parts of the text are in both official languages and the survey responses are shown in the languages in which these were received. That format will be followed for subsequent editions.

In compiling the first edition of the "Index", MRL approached contacts primarily in the hard rock mining industry. In future years, with the collaboration of its sister division, the Coal Research Laboratories (CRL), it is planned to extend the coverage to the entire Canadian mining industry.

It should be noted that additional data has been made available by the respondents for many, but not all, of the research projects listed. For the present, the details for individual projects are not being published. Discussions will be held with NACMMR, and industrial contacts to determine what the requirements might be for further information and of the best mechanisms for addressing these.

Hopefully, as the "Index" becomes known and its value established, participation in the survey upon which it is founded will increase. The present edition is based on a response of about 50%. While this is considered to be good, greater participation will remain a goal.

Finally, attention is drawn to the "Opinion Poll" forms which are included as the last pages. These are an important mechanism by which we can be advised of comments, and of any errors and omissions. We hope that those using the "Index" will find the time to complete these.

John E. Udd

John E. Udd
Director
Mining Research Laboratories

INDEX SUR LE DÉVELOPPEMENT EN TECHNOLOGIE MINIÈRE (1985)

AVANT - PROPOS

L'"index sur le développement en technolgie minière" est un service offert par les LRM de CANMET en vue de répondre aux demandes d'informations sur les activités de recherche minière en cours au Canada à partir d'une base de données. Ce service vise à promouvoir l'efficacité et le transfert de la technolgie par le biais de la diffusion de renseignements relatifs aux recherches effectuées dans d'autres institutions. Une édition révisée de l'index sera publiée annuellement dans le but d'accroître son utilité.

Cette base de données à été conçue suite à une recommandation du sous-comité des questions minières du Comité consultatif national sur la recherche en génie minier et métallurgique (NACMMR). La publication du présent volume a été rendue possible grâce au travail de Dick Welwood qui a consacré beaucoup plus d'efforts que prévu initialement. M. Welwood mérite nos félicitations les plus sincères pour les efforts qu'il a déployés afin de mener cette tâche à terme.

La présente édition de l'index est publiée dans les deux langues officielles et les parties principales du texte sont publiées en anglais et en français; les réponses obtenues lors du sondage apparaissent dans la langue utilisée par la personne qui a rempli le questionnaire. Les éditions subséquentes auront un format et une présentation similaires.

Pour réaliser la première édition de l'"index", les LRM se sont limités à la partie de l'industrie minière oeuvrant à l'extraction en roche dure. Au cours des prochaines années, avec la collaboration des Laboratories de recherche sur le charbon (LRC), les LRM prévoient étendre le travail à tous les secteurs de l'industrie minière canadienne.

Il est à remarquer que des données additionnelles ont été fournies par des participants sur plusieurs projets de recherche figurant à l'index. Pour l'instant, les détails concernant les projets individuels ne seront pas publiés. Des recontres au niveau du comité NACMMR et avec des gens de l'industrie sont prévues afin de déterminer les besoins futurs d'information et les moyens à prendre pour y répondre.

Il faut croire que dès que "l'index" sera connu et son utilité précisée, la participation au sondage de base s'accroitra. La présente édition résulte de la participation de 50% des personnes interrogées. Bien que le nombre de participants au sondage soit intéressant, une participation encore plus grande est essentielle pour en accroître la crédibilité.

En dernier lieu, permettez-moi de rappeler au lecteur que la formule du sondage se trouve aux dernières pages de l'index. Cette formule est d'une importance primordiale car elle nous permet de prendre connaissance de vos commentaires, et des erreurs et omissions notées. Nous espérons que les futurs utilisateurs de l'index disposeront d'un peu de temps pour compléter cette fiche et nous la retourner.

John E. Udd
Directeur
Laboratoires de recherche minière

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INTRODUCTION

As recommended by the Mining Sub-Committee of the National Advisory Committee on Mining and Metallurgical Research (NACMMR), CANMET's Mining Research Laboratories have established an on-going national multi-lateral mining technology information exchange database. This is a current awareness self-help service in which all involved in Canadian mining are invited to participate.

Essentially this activity will provide an exchange mechanism, pertaining to mine productivity improvement, technology development and research projects in Canada. A CANMET computer information base for Canadian mining technology has been established. The resulting periodic Index Reports may be described as "Yellow page" directories. Participants, in this way, may review what is taking place in Canada and make direct contact with organizations which have projects of common interest.

Future plans for the Index involve contacting all relevant organizations in Canada at regular intervals. This will be accomplished by visits, telephone and/or mail. However we hope, as the value of this report becomes clearer, that the larger industrial R&D groups in mining technology will voluntarily submit information at regular intervals.

The CANMET Mining Technology information base contains current project titles, with brief descriptions and other relevant information for each. From this source, Index Reports will be compiled at regular intervals (initially annually), for national distribution. As noted, these Index Reports will assemble current mining technology developments for mutual sharing. This is not a library service; participants will be responsible for making their own contacts to obtain specific information of interest to them.

This Index Report is the result of cooperation by members of many organizations involved in Canadian mining and represents an encouraging beginning. It contains all inputs received up to the end of 1985, available in CANMET's computer information base. New information will routinely be placed in computer storage. In the intervals between major Index Reports, specific project information, in designated organizations or categories, will be made available on request, with an appropriate charge for this service.

The usefulness of CANMET's Mining Technology Development Index will depend on a high level of participation, as well as continuity in the assembly and distribution of results. Hopefully, the Index will expand to encompass all possible contributors in Canada and effectively contribute to productivity improvement and cost reduction in Canadian mining operations.

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INTRODUCTION

Conformément aux recommandations du sous-comité des questions minières du Comité consultatif national sur la recherche en génies minier et métallurgique (NACMMR), les Laboratoires de recherche minière de CANMET ont mis sur pied une banque de données nationale et multi-latérale permanente dans le but de favoriser la diffusion de l'information portant sur la technologie minière. Cette banque de données se veut un service individuel d'information que peuvent utiliser toutes les personnes qui s'intéressent à l'industrie minière.

La banque de données doit essentiellement servir aux échanges de renseignements en ce qui a trait à l'amélioration de la productivité des mines, le développement technologique et les projets de recherche dans le secteur au Canada. CANMET s'est doté d'une banque de données automatisée sur la technologie minière. Il s'ensuit que l'index sera produit régulièrement, une peu comme les "pages jaunes" de l'annuaire téléphonique; il permet donc aux clients de se renseigner sur les tendances actuelles au Canada et de contacter directement les organismes qui partagent des intérêts communs.

À l'avenir, le groupe de travail projette de contacter à intervalles réguliers tous les organismes canadiens concernés, par téléphone ou par la poste et occasionnellement en se rendant sur place, en vue de faciliter la mise à jour, du répertoire des projets en cours. Il est cependant anticipé qu'en prenant conscience de l'importance de l'index, les groupes principaux de R - D sur la technologie minière seront incités à fournir, de leur propre chef, des informations de facon régulière.

La banque de données sur la technologie minière de CANMET comprend les titres des projets en cours ainsi que de brèves descriptions de ceux-ci et autres renseignements pertinents. L'index des projets en cours sera compilé à intervalles réguliers (annuellement, au début)à partir de la banque de données, en vue d'être diffusé à l'échelle nationale. Ainsi qu'il en a été fait mention, l'index comprendra des renseignements sur les développements en cours dans le domaine de la technolgie minière. Ce service n'est pas un

service de bibliothèque; il incombera aux utilisateurs d'établir leurs propres contacts en vue d'obtenir les informations particulières qui les intéressent.

L'élaboration de l'index a été rendue possible grâce à la collaboration des membres d'un grand nombre d'organismes intéressés à l'industrie minière canadienne et constitue un début prometteur. L'index comprend toutes les données reçues avant la fin de l'année 1985 et est disponible à CANMET sous forme de banque de données informatisée. Toutes les nouvelles données seront intégrées dès leur réception. Entre deux mises à jour de l'index, des renseignements particuliers sur les projets classés par organismes ou catégories seront disponibles sur demande moyennant certains frais.

L'utilité de l'index des projets relatifs à la technolgie minière dépendra du niveau de participation de même que de la continuité du service de compilation et de diffusion des renseignements. Il est à espérer que le répertoire prenne de l'envergure afin d'inclure les contributions de tous les chercheurs canadiens reliés au secteur et contribuer ainsi à l'amélioration de la productivité et à la réduction des frais d'exploitation minière au Canada.

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WESTMIN RESOURCES LIMITED
MYRA FALLS OPERATIONS
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PROJECT LISTING/LISTE DE PROJETS

1. HEAP LEACHING - SOLVENT EXTRACTION (CAT. 8)

2. RUBBER TRUCK BOX (CAT. 4,5)

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Logan Lake, B.C. V0K 1W0

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PROJECT LISTING/LISTE DE PROJETS

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PROJECT LISTING/LISTE DE PROJETS

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PROJECT LISTING/LISTE DE PROJETS

1. FIELD TESTING 4 1/2 INCH AND 3 1/2 INCH IN-THE-HOLE DRILLING SYSTEM (CAT. 1,5)

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TECK CORPORATION LIMITED
1199 W. Hasting Street
Vancouver, B.C. V6E 2K5

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PROJECT LISTING/LISTE DE PROJETS

1. A STRATEGY FOR MINE COMPUTERIZATION (CAT 9, 10)

   - MINING ASSOCIATION OF CANADA REFERENCE PUBLICATION: "PLANNING FOR TECHNOLOGICAL CHANGE".

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(403)777-2345

PROJECT LISTING/LISTE DE PROJETS

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PROJECT LISTING/LISTE DE PROJETS

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(306) 745-3911

PROJECT LISTING/LISTE DE PROJETS

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Chief Engineer
M.L. Goble, Manager***
Process Technology

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2. V.B.M. DESIGN GUIDELINES FOR STEEPLY-DIPPING OREBODIES AND SCALING TECHNIQUES* (CAT. 3,10)

3. MODIFICATION OF ROCKBOLT SHELLS FOR IMPROVED ANCHORING IN SOFTER ROCK AND ORE FORMATIONS* (CAT. 3,9)

4. ROCK BREAKING WITHOUT THE CONVENTIONAL USE OF EXPLOSIVES* (CAT. 5,17)

5. OVERBURDEN STABILIZATION* (CAT. 3,13)

6. MINING METHODS OPTIMIZATION** (CAT. 9,10)

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M.L. Goble, Manager***
Process Technology

PROJECT LISTING/LISTE DE PROJETS

8. SOUND AND VIBRATION SUPPRESSION ON COMPRESSED AIR EQUIPMENT (JACKLEGS, STOPERS)* (CAT. 1,5)

9. POLYURETHANE APPLICATION IN THE UNDERGROUND ENVIRONMENT* (CAT. 9)

10. DEVELOPMENT OF SULPHUR REDUCING MINERAL BENEFICIATION TECHNIQUES*** (CAT. 17)

11. CONCEPTUAL STUDIES ON USING GRANULATED SLAG AS BACKFILL IN BULK MINING STOPES* (CAT. 7)

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PROJECT LISTING/LISTE DE PROJETS

1. MINING METHOD SELECTION, BLAST DESIGN AND LAYOUT FOR FLAT DIPPING OREBODY (CAT. 10)

2. BACTERIAL-LEACH ASSISTED MINING (CAT. 8)

3. MINE DESIGN CADD SYSTEM (CAT. 10)

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2. MICROSEISMIC MONITORING (CAT. 3)

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PROJECT LISTING/LISTE DE PROJETS

1. LONG HOLE CUT AND FILL* (CAT. 10)

2. HYDRAULIC BACKFILL* (CAT. 7)

3. REMOTE SCOOP RETRIEVAL SYSTEM** (CAT. 4,5)

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Mill Superintendent

PROJECT LISTING/LISTE DE PROJETS

1. TAILSPINNER BACKFILL PROJECT (CAT. 7)*

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Instrumentation Supervisor
D.B. Counter****
Rock Mechanics Engineer

PROJECT LISTING/LISTE DE PROJETS

1. THE USE OF WATER UNDER PRESSURE FOR ROCK WORK (FOR MINING APPLICATIONS IN COMMON HARD ROCK) (CAT. 5,17)*
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2. LOOSE ROCK SENSING SYSTEM FOR MECHANIZED SCALING (CAT. 3,5)*

3. UNDERGROUND MINE DRAINAGE SYSTEM - SLIMES HANDLING METHODS EVALUATION (CAT. 4,17)**,*

4. UNDERGROUND COMMUNICATION IMPROVEMENT (CAT. 12)***

5. TRACK HAULAGE REMOTE CONTROL (CAT. 4,5)***

6. BALLISTIC "HANG-UP" CLEARANCE SYSTEM FOR ORE PASSES AND DRAWPOINTS (CAT. 2,4)*

7. PARTIAL REPLACEMENT OF PORTLAND CEMENT IN CONSOLIDATED BACKFILL (CAT. 7)****

8. INTEGRATED MAINTENANCE SYSTEM (CAT. 6)
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PROJECT LISTING/LISTE DE PROJETS

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1. NON-ELECTRIC SEQUENTIAL BLASTING (CAT. 2)

2. SELF-CONTAINED SCOOPTRAM DUST SUPPRESSION SYSTEM (CAT. 5,11)

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2. BACKFILL MINING PROGRAM, INVOLVING TESTING OF OPEN AND FREE DRAINAGE FILL FENCES, FILTER MEDIA AND VARIOUS TYPES OF DRAINAGE PIPES (CAT. 7)

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PROJECT LISTING/LISTE DE PROJETS

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6. INVESTIGATION OF THE IN SITU STRESS CONDITIONS AND THE DESIGNS AND ANALYSES BY NUMERICAL MODELLING METHODS OF PROPOSED CUT-AND-FILL STOPES (CAT. 9,10)

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9. A LINKAGE ALGORITHM FOR FINITE ELEMENT/BOUNDARY INTEGRAL METHODS FOR SPECIFIC ROCK MECHANICS AND UNDERGROUND MINING APPLICATIONS TO REALISTICALLY MODEL THE ROCK MASS AND SUPPORT SYSTEMS (CAT. 3)

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13. STEEL FIBRE REINFORCED SILICA FUME SHOTCRETE RIBS IN SUBSTITUTION FOR STEEL RIBS FOR THE SUPPORT OF UNDERGROUND OPENINGS (CAT. 3,5)

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1. STUDY OF IN SITU STRESS MEASUREMENTS AT CAMFLO MINES, INCLUDING COMPUTER MODELLING OF STRESS PARAMETER DATA DETERMINED UNDERGROUND (CAT. 3)

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11. STUDY OF THE STRUCTURE, METHODS AND REQUIREMENTS OF MAINTENANCE SYSTEMS IN MINING OPERATIONS (CAT. 6)

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4. A GEOTECHNICAL STUDY OF LONGWALL FACE GATEROADS IN THE CAPE BRETON COALFIELD (CAT. 17)*

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11. BOREHOLE PATTERN AT BREAK-THROUGH (CAT. 1,9)***

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1. VENTILATION MINIÈRE: IMPACT DES NORMES DE SANTÉ AU TRAVAIL (CAT. 11,16)

2. IMPLEMENTING A MONITORING SYSTEM FOR THE VENTILATION NETWORK AT BRUNSWICK MINING AND SMELTING CORPORATION LIMITED (CAT. 16)

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B.C. RESEARCH'S INDUSTRIAL HYGIENE AND TOXICOLOGY CAPABILITIES OF USE TO THE MINING INDUSTRY

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PROJECT LISTING/LISTE DE PROJETS

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Denyse Ross
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Earth Sciences
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PROJECT LISTING/LISTE DE PROJETS

1. ADAPTIVE CONTROL OF ROBOTS.VISION FOR ROBOTS (CAT. 5)

2. SENSORS FOR UNMANNED MACHINING (CAT. 5)

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1. DEVELOPMENT OF TECHNOLOGY AND METHODS FOR THE MANAGEMENT OF MINE/MILL WASTE TO REDUCE ENVIRONMENTAL IMPACT (CAT. 13)

2. PARTICIPATION IN THE PREPARATION OF NATIONAL SAFETY STANDARDS PERTAINING TO EQUIPMENT OPERATION IN UNDERGROUND MINES, WHILE CONDUCTING RESEARCH IN THE FIELDS OF GAS AND DUST EXPLOSIONS AND FIRE RESISTANCE (CAT. 5,11)

3. DEVELOPMENT OF AN OPTIMAL AIR QUALITY INDEX, IN CONJUNCTION WITH FIELD TRIALS OF DIESEL EMISSION REDUCTION STRATEGIES (CAT. 11)

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5. INVESTIGATION OF UNDERGROUND STABILITY RELATED TO GEOLOGICAL STRUCTURE AND GRAVITATIONAL FORCES AND DEVELOPMENT OF EMPIRICAL, STATISTICAL AND DETERMINISTIC MODELS TO PREDICT STRUCTURAL STABILITY (CAT. 3)

6. INVESTIGATION OF UNDERGROUND STABILITY RELATED TO HIGH STRESSES AND ASSOCIATED ROCKBURSTS AND, USING INSTRUMENTATION, STUDY OF EMPIRICAL AND COMPUTER MODELS, MINING LAYOUTS AND DESIGNS TO MINIMIZE FAILURES (CAT. 3,10)

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8. PROMOTION OF MINING EQUIPMENT DEVELOPMENTS FOR MINE DEVELOPMENT, PRODUCTION AND TRANSPORTATION, AS WELL AS ASSESSMENT OF THE IMPACT OF SUCH EQUIPMENT ON MINE DESIGN, INCLUDING ASSOCIATED AUTOMATION, REMOTE CONTROL OR ROBOTICS (CAT. 5,10)

9. STUDIES DEVOTED TO THE DEVELOPMENT OF TECHNIQUES FOR REDUCING THE NOISE LEVELS OF DIAMOND DRILLING EQUIPMENT (CAT. 5,11)

10. EVALUATION OF THE LIMITATIONS AND EFFECTIVENESS OF EXISTING AND PROPOSED SUPPORT SYSTEMS FOR USE IN DEEP MINING UNDER HIGH STRESS CONDITIONS (CAT. 3)

11. LABORATORY TESTS ON ROCKS AND OTHER STRUCTURAL MATERIALS TO PROVIDE MATERIAL PROPERTIES DATA FOR PARALLEL FIELD AND MODEL STUDIES (CAT. 3)

12. MEASUREMENT OF THE CURRENT LEVELS OF RESPIRABLE DUST IN SELECTED CANADIAN MINES, AS WELL AS IDENTIFICATION AND ASSESSMENT OF DUST CONTROL MEASURES (CAT. 11)

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16. REPORT ON MINING COSTS FOR PRINCIPAL CLASSIFICATIONS OF MINE OPERATIONS (UPDATED ANNUALLY) (CAT. 15)

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22. STATE-OF-THE-ART PUBLICATION OF SYSTEMS FOR COMPUTERIZED MINE DESIGN AND OPERATIONS RESEARCH (1987) (CAT. 9,10)

23. HAULAGE SIMULATION FOR OPEN PIT IRON ORE MINE (1987) (CAT. 4,9)

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30. RUGGED, PORTABLE, SMALL SIDE-VIEWING BOREHOLE T.V. INSPECTION TOOL (1987) (CAT. 3,5)

31. FORCEMETER TO DETERMINE THE STABILITIY OF BULKHEADS IN BACKFILLED STOPES (1987) (CAT. 7,5)

32. REPORT ON STATE-OF-THE-ART REVIEW ON CURRENT UNDERGROUND COMMUNICATION SYSTEMS (1985) (CAT. 12)

33. COMPLETION OF A GEOTECHNICAL DATABASE AND A NUMERICAL MODELLING PACKAGE FOR THE DESIGN OF UNDERGROUND OPENINGS AT DEPTH (1987) (CAT. 3)

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1. DEVELOPMENT OF A STATE-OF-THE-ART MICROSEISMIC MONITORING SYSTEM (#5-9110) (NORANDA INC., POINTE CLAIRE, QUEBEC) (CAT. 3)

2. MICROBIOLOGICAL CONTROL OF LEACHINGS FROM MINE TAILINGS (#5-9156) (UNIVERSITY OF OTTAWA, OTTAWA, ONTARIO) (CAT. 8,13)

3. SAMPLING, FIELD TESTING AND MODELLING OF A SURFACE CROWN PILLAR AT LES MINES SELBAIE, JOUTEL, QUEBEC (#5-9017) (C. MIRZA ENGINEERING INC., NORTH YORK, ONTARIO) (CAT. 3,10)

4. INVESTIGATION OF THE LOW TEMPERATURE PERFORMANCE OF TRUCKS OPERATING ON LOW CETANE DIESEL FUEL (#4-6270) (IMPERIAL OIL LIMITED, SARNIA, ONTARIO) (CAT. 4,5)

5. PATHWAYS MOVEMENTS OF BRINE FROM POTASH TAILINGS AT THE POTASH CORPORATION OF SASKATCHEWAN TAILINGS PILES IN SASKATCHEWAN (#5-9164) (POTASH CORPORATION OF SASKATCHEWAN, SASKATOON, SASKATCHEWAN) (CAT. 13)

6. COMPUTER BLAST DESIGN PROGRAM EVALUATION FOR LARGE DIAMETER BLASTHOLE STOPES UNDERGROUND (#5-7085) (HYCARB ENGINEERING LIMITED, CALGARY, ALBERTA) (CAT. 2)

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7. STUDY OF THE CONSTRAINTS TO TECHNOLOGY DEVELOPMENT AND APPLICATION IN THE MINING SECTOR (#5-9170) (BEVELANDER AND COMPANY, TORONTO, ONTARIO) (CAT. 17)

8. DETERMINATION OF THE TECHNICAL VIABILITY OF A CAVITATING HYDRO IMPACTOR (#5-9001) (TELEDYNE CANADA LIMITED, THORNBURY, ONTARIO) (CAT. 5)

9. PROVISION OF A JARCO 500 LHD DIESEL MACHINE FOR UNDERGROUND ENVIRONMENTAL IMPACT TRIALS OF EMISSIONS REDUCTION DEVICES (#4-9326) (CIL INCORPORATED, BURLINGTON, ONTARIO) (CAT. 5,11)

10. COMPLETION OF SYSTEMS DEVELOPMENT AND ADAPTATION PHASE OF CANMET DIESEL EMISSIONS REDUCTION PROGRAM (#5-9019) (ONTARIO RESEARCH FOUNDATION, MISSISSAUGA, ONTARIO) (CAT. 11)

11. DEVELOPMENT, CONSTRUCTION AND TESTING OF PROTOTYPE ACCESSORIES FOR AUTOMATION OF A DOWN-THE-HOLE DRILL (#4-9339) (VADEKO INTERNATIONAL INC., MISSISSAUGA, ONTARIO) (CAT. 1,5)

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12. IDENTIFICATION OF EQUIPMENT DEVELOPMENT POTENTIAL AND THE INFLUENCE ON MINE DESIGN (#4-9070) (BRAMPTON MINING CO. LTD., BRAMPTON, ONTARIO) (CAT. 5,10)

13. DEVELOPMENT OF VERTICAL BLOCK METHOD DESIGN GUIDELINES FOR A STEEPLY-DIPPING OREBODY AND DEVELOPMENT OF SCALING TECHNIQUES (#4-9147-4) (INCO LIMITED, THOMPSON, MANITOBA, CANADA-MANITOBA MINERAL DEVELOPMENT AGREEEMENT) (CAT. 3,10)

14. GEOMECHANICAL DATABASE FOR GROUND CONTROL IN DEEP MINES (#4-9147-3) (INCO LIMITED, THOMPSON, MANITOBA, CANADA-MANITOBA MINERAL DEVELOPMENT AGREEMENT) (CAT. 3)

15. DEVELOPMENT OF A TAILINGS MANAGEMENT PROGRAM PLAN IN RELATION TO ACID-GENERATING MINE TAILINGS IN CANADA (4-9319) (MONENCO LIMITED, HALIFAX, NOVA SCOTIA) (CAT. 13)

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17. GROUND STABILITY EVALUATION WITH PARTICULAR REFERENCE TO AN EN ECHELON LENSED OREBODY (#4-9147-1) (SHERRITT GORDON MINES LTD., LEAF RAPIDS, MANITOBA, CANADA-MANITOBA MINERAL DEVELOPMENT AGREEMENT) (CAT. 3)

18. EXPERIMENTAL VERIFICATION OF HIGH VELOCITY IMPACT MODEL FOR SLURRY EXPLOSIVES PROJECTILE IMPACT (#4-9151) (MINING RESOURCE ENGINEERING LIMITED, KINGSTON, ONTARIO) (CAT. 2)

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20. CANADIAN MINING INDUSTRY CAPITAL AND OPERATING INDICES (OPEN PIT AND UNDERGROUND) (#4-9136) (DYNATEC MINING LIMITED, RICHMOND HILL, ONTARIO) (CAT. 15)

21. USE OF BACKFILL IN NEW BRUNSWICK POTASH MINES (#5-9031) (DENISON-POTACAN POTASH CO., SUSSEX, CANADA-NEW BRUNSWICK MINERAL DEVELOPMENT AGREEMENT) (CAT. 7)

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23. DEVELOP A METHODOLOGY FOR ESTIMATING PREPRODUCTION AND OPERATING COSTS OF MINING SMALL MINERAL DEPOSITS BY UNDERGROUND METHODS (#5-9128) (J.S. REDPATH LTD., NORTH BAY) (CAT. 15)

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26. GUIDE PRATIQUE DE CONCEPTION DES PILIERS DE SURFACE (CAT. 10)

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OPINION POLL

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- Is this projected service worthwhile for your purposes?
- Are there omissions in the proposed format?
- Would you suggest modifications?
- Do you wish to be contacted routinely for inclusion in Index surveys?

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Please mail to: Mining Research Laboratories
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555 Booth Street
OTTAWA, Ontario
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Attn: R.J.R. Welwood

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SONDAGE

CANMET sollicite votre opinion concernant l'"Index sur le développement en technologie minière". Nous serions également intéressés à toute suggestion quant à l'amélioration du présent travail.

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Commentaires

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S.V.P. retourner à: Laboratoires de recherche minière
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